

CLAIMS

1. An injection device having a housing with a spring drive releasable sequentially firstly to urge a syringe within the housing forwards to project its  
5 needle from the forward end of the housing and then to press a piston within the syringe forwards to eject a dose through the needle, wherein the spring drive includes a first spring that acts between the housing and a plunger aligned to co-operate with the piston, and a second spring that acts between the plunger and the syringe, the second spring being weaker than the first spring but being  
10 sufficiently stiff to be in an expanded state when the syringe reaches its forward position with its needle penetrating the flesh of a patient, whereupon the first spring, as it fully expands, will then compress the second spring to urge the plunger forwards and thereby move the piston and expel the dose within the syringe, the second spring meanwhile serving to retain the syringe seated at its  
15 forward position.

2. An injection device according to claim 1, wherein the plunger has a collar slidable lengthwise within limits, and the second spring bears on the rear side of this collar, while the forward side of the collar co-operates with the syringe.

3. An injection device according to claim 1 or claim 2, including a third, light  
20 spring urging the syringe rearwardly so that its needle is retracted within the housing prior to use.

4. An injection device according to claim 3, wherein the third spring encircles the syringe and acts between a rear flange of the syringe and an internal shoulder of the housing.

5. An injection device substantially as herein described, with reference to the accompanying drawings.
6. Any novel combination of features of an injection device as described herein, and/or as illustrated in the accompanying drawings.